## Listing of Claims

This listing of claims will replace prior versions and listings of claims in the application:

## Claims 1-40 (Cancelled)

- 41. (Currently amended) A method for determining a predisposition for or presence of prostate cancer in a patient comprising:
  - (a) performing an RNA amplification assay on a urine sample of said patient <u>having</u> not been obtained immediately following ejaculation and comprising at least one prostate cell, or nucleic acid extract thereof, using a first primer pair specific to a prostate cancer specific PCA3 mRNA sequence selected from the group consisting of:
    - i) a polynucleotide comprising SEQ ID NO: 9, 10 or 13;
    - ii) a polynucleotide sequence that hybridizes under high stringency conditions to the polynucleotide sequence in i), wherein said high stringency conditions comprise a hybridization at 65°C in 6X SSC or 5X SSPE, 5X Denhardt's solution, 0.5% SDS and 100 μg/ml denatured carrier DNA and a washing at 65°C in 0.2X SSC/0.1% SDS; and
    - iii) a polynucleotide sequence fully complementary to i) or ii);
  - (b) performing a second RNA amplification assay on said urine sample comprising at least one prostate cell, or nucleic acid extract thereof, using a second primer pair specific to a second prostate-specific mRNA sequence; and
  - (c) detecting said PCA3 mRNA sequence and said second prostate-specific mRNA sequence;

eorrelating whereby a detection of an elevated level of said prostate cancer-specific PCA3 mRNA sequence or a level thereof, as compared to a PCA3 mRNA or a level thereof associated with a normal or non-malignant prostate state, with is indicative of

a <u>higher</u> risk of developing prostate cancer or a presence of prostate cancer in said patient; and

- (e) correlating whereby an absence of detection of said prostate cancer-specific PCA3 mRNA sequence or lower level thereof, as compared to a PCA3 mRNA sequence or a level thereof associated with a normal or non-malignant prostate state, with is indicative of an absence of prostate cancer or a lower risk of developing same, when said second prostate-specific mRNA is detected.
- 42. (Previously presented) The method of claim 41, wherein said RNA amplification assay is carried out in real-time.
- 43. (Previously presented) The method of claim 41, wherein said detection is performed by fluorescence, chemiluminescence or colorimetry detection.
- 44. (Currently amended) The method of claim 41, wherein the detection of said second prostate-specific mRNA validates the presence of at least one prostate cell in said urine sample.
- 45. (Currently amended) The method of claim 41, wherein said second prostate-specific mRNA is selected from the group consisting of: PSA, human kallikrein 2, PSMA, transglutaminase 4, acid phosphatase, and PCGEM1 mRNA and a prostate-specific PCA3 mRNA that is not associated with prostate cancer.
- 46. (Currently amended) The method of claim 45, wherein said second prostate-specific mRNA is PSA mRNA.
- 47. (Previously presented) The method of claim 46, wherein said PSA mRNA hybridizes to human kallikrein 2.

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48. (Previously presented) The method of claim 41, wherein said RNA amplification method is selected from the group consisting of:

- (a) nucleic acid sequence-based amplification (NASBA);
- (b) polymerase chain reaction (PCR);
- (c) transcription-mediated amplification assay (TMA); and
- (d) ligase chain reaction.
- 49. (Previously presented) The method of claim 42, wherein said RNA amplification method is selected from the group consisting of:
  - (a) nucleic acid sequence-based amplification (NASBA);
  - (b) polymerase chain reaction (PCR);
  - (c) transcription-mediated amplification assay (TMA); and
  - (d) ligase chain reaction.
- 50. (Currently amended) The method of claim 41, wherein said amplification of PCA3 and said second prostate-specific mRNA is performed simultaneously.
- 51. (Previously presented) The method of claim 41, wherein said amplification of PCA3 is carried out using a primer pair comprised of the polynucleotide sequences set forth in SEQ ID NOs: 3 and 4.
- 52. (Currently amended) The method of claim 41, wherein said detection of PCA3 is carried out using a molecular beacon that hybridizes to PCA3 under high stringency conditions.
- 53. (Previously presented) The method of claim 52, wherein said molecular beacon comprises the sequence set forth in SEQ ID NO: 6.
- 54. (Previously presented) The method of claim 46, wherein said amplification of PSA is

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carried out using a primer pair comprised of the polynucleotide sequences set forth in SEQ ID NOs: 1 and 2.

- 55. (Currently amended) The method of claim 46, wherein said detection of PSA is carried out using a PSA molecular beacon that hybridizes to PSA under high stringency conditions.
- 56. (Currently amended) The method of claim 55, wherein said PSAmolecular PSA molecular beacon comprises the sequence set forth in SEQ ID NO: 5.
- 57. (Previously presented) The method of claim 50, wherein said simultaneous amplification is carried out in one container.
- 58. (Previously presented) The method of claim 46, wherein said detection of PSA is carried out using a chemiluminescent label in a homogenous detection method.
- 59. (Previously presented) The method of claim 43, wherein said detection of PCA3 is carried out using acridinium ester compounds.
- 60. (Previously presented) The method of claim 58, wherein said chemiluminescent label is an acridinium ester.
- 61. (Previously presented) The method of claim 41, wherein said mRNA is extracted from said at least one prostate cell.
- 62. (Previously presented) The method of claim 61, wherein said RNA is extracted using
  - (a) a silica based purification method; or
  - (b) a target capture method.

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- 63. (Currently amended) The method of claim 41, wherein said urine sample is a voided urine sample from a patient having an increased number of prostate cells therein.
- 64. (Previously presented) The method of claim 62, wherein said RNA is extracted using a silica-based method.
- 65. (Currently amended) The method of claim 63, wherein said <u>voided</u> urine sample is collected following a digital rectal exam.
- 66. (Cancelled)
- 67. (Currently amended) A method for determining a predisposition for or presence of prostate cancer in a patient comprising:
  - (a) performing an RNA amplification assay on a urine sample of said patient <u>having</u> not been obtained immediately following ejaculation and comprising at least one prostate cell, or nucleic acid extract thereof, using a first primer pair specific to a prostate cancer specific PCA3 mRNA sequence selected from the group consisting of:
    - i) a polynucleotide comprising SEQ ID NO: 9, 10 or 13;
    - ii) a polynucleotide sequence that hybridizes under high stringency conditions to the polynucleotide sequence in i), wherein said high stringency conditions comprise a hybridization at 65°C in 6X SSC or 5X SSPE, 5X Denhardt's solution, 0.5% SDS and 100 μg/ml denatured carrier DNA and a washing at 65°C in 0.2X SSC/0.1% SDS; and
    - iii) a polynucleotide sequence fully complementary to i) or ii);
  - (b) performing a second RNA amplification assay on said urine sample comprising at least one prostate cell, or nucleic acid extract thereof, using a second primer pair specific to a second prostate-specific mRNA sequence; and

(c) detecting said PCA3 mRNA sequence and said second prostate-specific mRNA sequence;

(d) correlating whereby a higher detection of said prostate cancer-specific PCA3 mRNA, as compared to a predetermined cut off value associated with a normal or non-malignant prostate state, with is indicative of a higher risk of developing prostate cancer or a presence of prostate cancer in said patient; and (e)-correlating whereby an absence of detection or lower detection of said prostate cancer-specific PCA3 mRNA, as compared to said predetermined cut off value associated with a normal or non-malignant prostate state, with is indicative of an absence of prostate cancer or a lower risk of developing same, when said second prostate-specific mRNA is detected.

- 68. (Previously presented) The method of claim 41, wherein said detection of PCA3 is carried out using chemiluminescent labels in a homogenous detection method.
- 69. (Previously presented) The method of claim 68, wherein said detection of PCA3 is carried out using acridinium ester compounds.